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Chaos 200EP

Chaos 200EP Tone Generator and Wire Tracer Kit Instruction Manual

Model: 200EP

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your Chaos 200EP Tone Generator and Wire Tracer Kit. This kit is designed for cable and wire maintenance, including line tracing, short circuit testing, and circuit identification. Please read this manual thoroughly before operation.

Package Contents:

- Tone Generator Unit
- Inductive Amplifier Probe (Wire Tracer)
- RJ11/RJ45 Connector Cable
- Alligator Clip Test Leads
- Carrying Pouch
- User Manual (this document)



Figure 1: Complete Chaos 200EP Tone Generator and Wire Tracer Kit, including the inductive amplifier probe, tone generator unit with various connectors, a protective cap, and a carrying pouch.

2. PRODUCT COMPONENTS AND FEATURES

The Chaos 200EP kit consists of two main units: the Tone Generator and the Inductive Amplifier (Wire Tracer).

2.1 Inductive Amplifier (Wire Tracer)



Figure 2: Detailed view of the Inductive Amplifier (Wire Tracer) with key components labeled.

1. **Carbon Fiber Probe Tip:** Used to detect the tone signal.
2. **Volume Adjustment Wheel:** Controls the loudness of the speaker output.
3. **LED Indicator:** Illuminates to indicate power or signal detection.
4. **On/Off Button:** Press and hold to activate the amplifier.
5. **Speaker:** Emits the audible tone when a signal is detected.
6. **Dual Connector:** Port for connecting a headset or telephone test set (not included).

2.2 Tone Generator Unit

Multipurpose test

Two types of connectors for a wide range of tests



Figure 3: The Tone Generator unit showing its connection options and internal battery compartment. The tone generator unit features multiple connection options for various cable types:

- **RJ11/RJ45 Port:** For connecting to network or telephone cables.
- **Alligator Clip Leads:** For connecting to individual wires or terminals.
- **Mode Switch:** Selects between Tone, Off, Continuity, and Polarity test modes.
- **Battery Compartment:** Houses the 9V battery (not included).

3. SETUP AND BATTERY INSTALLATION

Both the Tone Generator and the Inductive Amplifier require 9V batteries for operation. Batteries are not included with the kit.

3.1 Battery Installation (Both Units)

1. Locate the battery compartment cover on the back of each unit.
2. Carefully slide or unclip the cover to open it.
3. Connect a 9V battery to the battery clip, ensuring correct polarity (+ to + and - to -).
4. Place the battery inside the compartment.

5. Replace the battery compartment cover, ensuring it is securely closed.

Note: Always use fresh 9V alkaline batteries for optimal performance. Remove batteries if the device will not be used for an extended period to prevent leakage.

4. OPERATING INSTRUCTIONS

The Chaos 200EP kit offers several functions for cable testing and tracing.

4.1 Wire Tracing (Tone Generation)

This function is used to identify and trace a specific wire or cable within a bundle.

1. **Connect the Tone Generator:**

- For RJ11/RJ45 cables: Plug the appropriate connector from the tone generator into the cable or port you wish to trace.
- For individual wires: Use the alligator clips to connect the tone generator to the wire(s) you want to trace. Connect one clip to the wire and the other to a known ground or another wire in the pair.

2. **Select Tone Mode:** Set the switch on the tone generator to the "TONE" position. The generator will begin emitting an audible signal.

3. **Use the Inductive Amplifier:**

- Turn on the inductive amplifier by pressing and holding the On/Off button. The LED indicator may illuminate.
- Adjust the volume wheel to a comfortable listening level.
- Carefully sweep the carbon fiber probe tip along the cable bundle or near the suspected wire.
- Listen for the tone emitted by the amplifier's speaker. The tone will be loudest when the probe is closest to the wire carrying the signal from the tone generator.

4. **Identify the Cable:** Once the loudest tone is detected, you have successfully identified the target cable.



timely reminder



When you have tested the correct cable, a bell will alert you

Figure 4: Demonstrating the use of the inductive amplifier to trace a network cable, indicated by a red signal ring.

4.2 Continuity Testing

This function checks for an unbroken path in a circuit or cable.

1. **Connect the Tone Generator:** Use the alligator clips to connect the tone generator across the two points you want to test for continuity.
2. **Select Continuity Mode:** Set the switch on the tone generator to the "CONTINUITY" position.
3. **Interpret Results:**
 - If there is continuity (a complete circuit), the tone generator will emit a steady tone.
 - If there is no continuity (an open circuit), no tone will be heard.

4.3 Polarity Testing

This function determines the polarity of a DC voltage on a line.

1. **Connect the Tone Generator:** Use the alligator clips to connect the tone generator to the two points where you want to test polarity.
2. **Select Polarity Mode:** Set the switch on the tone generator to the "POLARITY" position.

3. **Interpret Results:** The LED indicators on the tone generator will show the polarity. Consult the markings on the device for specific positive and negative indications.

Caution: This device is primarily for low voltage conditions (below 24V). Do not use on live circuits with high voltage to avoid damage to the device or personal injury.

5. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your Chaos 200EP kit.

- **Cleaning:** Wipe the units with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the kit in its carrying pouch in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Replacement:** Replace batteries when the tone becomes weak or the LED indicators dim. Always remove batteries if the device is not in use for extended periods.
- **Probe Tip:** The carbon fiber probe tip is durable but can be damaged by excessive force. Handle with care.

6. TROUBLESHOOTING

If you encounter issues with your Chaos 200EP kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No tone from inductive amplifier.	<ul style="list-style-type: none"> ◦ Amplifier is off. ◦ Dead or low battery in amplifier. ◦ Tone generator is off or not connected. ◦ Tone generator battery is dead or low. ◦ Volume on amplifier is too low. 	<ul style="list-style-type: none"> ◦ Press and hold the On/Off button. ◦ Replace the 9V battery in the amplifier. ◦ Ensure tone generator is on and connected to the cable. ◦ Replace the 9V battery in the tone generator. ◦ Adjust the volume wheel upwards.
Weak or intermittent tone.	<ul style="list-style-type: none"> ◦ Low batteries in either unit. ◦ Probe not close enough to the wire. ◦ Excessive electrical interference. 	<ul style="list-style-type: none"> ◦ Replace batteries in both units. ◦ Ensure the probe tip is directly over the target wire. ◦ Move away from sources of strong electromagnetic fields.
Continuity test fails (no tone).	<ul style="list-style-type: none"> ◦ Open circuit in the cable. ◦ Poor connection of alligator clips. ◦ Tone generator battery is dead or low. 	<ul style="list-style-type: none"> ◦ Inspect the cable for breaks or damage. ◦ Ensure clips are firmly attached. ◦ Replace the 9V battery in the tone generator.

7. SPECIFICATIONS

Feature	Specification
Model Number	200EP
Brand	Chaoos
Power Source	Battery Powered (2x 9V batteries, not included)
Inductive Amplifier Gain	Nominal 30dB
Inductive Amplifier Input Impedance	Nominal 100M Ohm
Max. Operating Voltage	24 Volts (DC)
Dimensions (Inductive Amplifier)	Approximately 231mm (9.0in) x 55mm (2.2in)
Dimensions (Tone Generator)	Approximately 58mm (2.3in) x 50mm (2.0in)
Weight	Approximately 10.58 ounces (total kit)

// Convenient size



8. WARRANTY AND SUPPORT

Chaos provides customer support for this product. If you have any questions or require assistance within 365 days of purchase, please contact our service team via email or the Q&A section on the product page. Our team aims to respond within 12 hours to ensure customer satisfaction.

For further assistance, please refer to the contact information provided with your purchase or visit the official Chaos brand store online.